

Serial No. 09/525,446
 Amdt. dated December 7, 2004
 Supplemental Amendment

Docket No. K-090C

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-17 (Cancelled)

18. (New) A communication device, comprising:

means for establishing chip and frame synchronization for at least one of a radio link
 or a channel; and

means for generating at least one frame synchronization word, said at least one word
 comprises at least one of the following pilot bit pattern, each bit of each pilot bit pattern
 being provided within a corresponding slot of a frame having 15 slots:

Slot No	1	2	3	4	15
Pilot bit pattern 1 =	1	0	0	0	1	1 1 1 0 1 0 1 1 0 0)
Pilot bit pattern 2 =	1	0	1	0	0	1 1 0 1 1 1 0 0 0 0)
Pilot bit pattern 3 =	1	1	0	0	0	1 0 0 1 1 0 1 0 1 1)
Pilot bit pattern 4 =	0	0	1	0	1	0 0 0 0 1 1 1 0 1 1)
Pilot bit pattern 5 =	1	1	1	0	1	0 1 1 0 0 1 0 0 0 1)
Pilot bit pattern 6 =	1	1	0	1	1	1 0 0 0 0 1 0 1 0 0)
Pilot bit pattern 7 =	1	0	0	1	1	0 1 0 1 1 1 1 0 0 0)
Pilot bit pattern 8 =	0	0	0	0	1	1 1 1 0 1 1 0 0 1 0 1)

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wherein the at least one synchronization word has maximum correlation results of opposite polarities at time shifts of zero and seven of a correlation period.

19. (New) The communication device of claim 18, wherein the maximum correlation result at time shift of zero is a result of autocorrelation.

20. (New) The communication device of claim 19, wherein the maximum correlation result at time shift of seven is a result of cross-correlation.

21. (New) The communication device of claim 18, wherein the at least one frame synchronization word allows confirmation of frame synchronization.

22. (New) The communication device of claim 18, wherein the establishing means establishes chip and frame synchronization using offset information of a common control physical channel.

23. (New) The communication device of claim 18, further comprising means for transmitting the at least one frame synchronization word within the frame of a dedicated physical control channel.

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24. (New) The communication device of claim 18, wherein a correlation result is the same at time shift of 15 as time shift of 0.